Biao Luo

List of Publications by Year
in descending order

27 papers	2,431 citations	331670 21 h-index	610901 24 g-index
27 all docs	27 docs citations	27 times ranked	1201 citing authors

#	Article	IF	Citations
1	Off-Policy Reinforcement Learning for <inline-formula> <tex-math notation="LaTeX">$ H_infty $ </tex-math></inline-formula> Control Design. IEEE Transactions on Cybernetics, 2015, 45, 65-76.	9.5	292
2	Adaptive Dynamic Programming for Control: A Survey and Recent Advances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 142-160.	9.3	280
3	Model-Free Optimal Tracking Control via Critic-Only Q-Learning. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2134-2144.	11.3	245
4	Data-based approximate policy iteration for affine nonlinear continuous-time optimal control design. Automatica, 2014, 50, 3281-3290.	5.0	228
5	Policy Gradient Adaptive Dynamic Programming for Data-Based Optimal Control. IEEE Transactions on Cybernetics, 2017, 47, 3341-3354.	9.5	145
6	An Approximate Optimal Control Approach for Robust Stabilization of a Class of Discrete-Time Nonlinear Systems With Uncertainties. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 713-717.	9.3	128
7	Adaptive Optimal Control of Highly Dissipative Nonlinear Spatially Distributed Processes With Neuro-Dynamic Programming. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 684-696.	11.3	115
8	Adaptive <inline-formula> <tex-math notation="LaTeX">Q </tex-math> </inline-formula>-Learning for Data-Based Optimal Output Regulation With Experience Replay. IEEE Transactions on Cybernetics, 2018, 48, 3337-3348.	9.5	108
9	Reinforcement learning solution for HJB equation arising in constrained optimal control problem. Neural Networks, 2015, 71, 150-158.	5.9	97
10	Data-Driven <inline-formula> <tex-math notation="LaTeX">H_infty </tex-math></inline-formula> Control for Nonlinear Distributed Parameter Systems. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2949-2961.	11.3	93
11	Event-Triggered Adaptive Dynamic Programming for Zero-Sum Game of Partially Unknown Continuous-Time Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3189-3199.	9.3	90
12	Adaptive Constrained Optimal Control Design for Data-Based Nonlinear Discrete-Time Systems With Critic-Only Structure. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 2099-2111.	11.3	86
13	Optimal Output Regulation for Model-Free Quanser Helicopter With Multistep Q-Learning. IEEE Transactions on Industrial Electronics, 2018, 65, 4953-4961.	7.9	76
14	Data-based robust adaptive control for a class of unknown nonlinear constrained-input systems via integral reinforcement learning. Information Sciences, 2016, 369, 731-747.	6.9	70
15	Approximate Optimal Control Design for Nonlinear One-Dimensional Parabolic PDE Systems Using Empirical Eigenfunctions and Neural Network. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 1538-1549.	5.0	66
16	Computationally efficient simultaneous policy update algorithm for nonlinear H_∞ state feedback control with Galerkin's method. International Journal of Robust and Nonlinear Control, 2013, 23, 991-1012.	3.7	55
17	Constrained Event-Triggered H_∞ Control Based on Adaptive Dynamic Programming With Concurrent Learning. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 357-369.	9.3	51
18	Balancing Value Iteration and Policy Iteration for Discrete-Time Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 3948-3958.	9.3	47

#	Article	IF	Citations
19	Pinning synchronization of memristor-based neural networks with time-varying delays. Neural Networks, 2017, 93, 143-151.	5.9	46
20	Data-based Suboptimal Neuro-control Design with Reinforcement Learning for Dissipative Spatially Distributed Processes. Industrial & Engineering Chemistry Research, 2014, 53, 8106-8119.	3.7	32
21	Online policy iteration algorithm for optimal control of linear hyperbolic PDE systems. Journal of Process Control, 2012, 22, 1161-1170.	3.3	22
22	Bipartite output consensus in networked multi-agent systems of high-order power integrators with signed digraph and input noises. International Journal of Systems Science, 2016, 47, 3116-3131.	5.5	21
23	Integral reinforcement learning based event-triggered control with input saturation. Neural Networks, 2020, 131, 144-153.	5.9	19
24	Event-triggered integral reinforcement learning for nonzero-sum games with asymmetric input saturation. Neural Networks, 2022, 152, 212-223.	5.9	15
25	Long short-term memory based on a reward/punishment strategy for recurrent neural networks. , 2017, , .		4
26	Adaptive optimal control for an air-breathing hypersonic vehicle. , 2011, , .		0
27	RBF neural network identifier based constrained optimal guidance for Mars entry vehicles. , 2015, , .		0